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Department of Energy

Richland Operations Office

P.O. Box 550

Richland, Washington 99352

MAY 09 1995

Mr. Steve M. Alexander  
Nuclear Waste Program  
State of Washington State  
Department of Ecology  
1315 W. 4th Avenue  
Kennewick, Washington 99336-6018

Mr. Douglas R. Sherwood  
Hanford Project Manager  
U.S. Environmental Protection Agency  
712 Swift Boulevard, Suite 5  
Richland, Washington 99352

Dear Messrs. Alexander and Sherwood:

100-BC DEMONSTRATION EXPEDITED RESPONSE ACTION REQUEST

The U.S. Department of Energy (DOE) requests approval from the U.S. Environmental Protection Agency (EPA) and State of Washington Department of Ecology (Ecology) to proceed with an Expedited Response Action in the 100-BC-1 Operable Unit under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This action is in response to public request to "get on with it" (cleanup). Because a Record of Decision for the 100-BC-1 Operable Unit is not expected for several months, this action will establish early removal actions and provide engineering design criteria for full-scale remediation for 100 Area operable units. The proposed action would address potential threats to the environment at 3 waste sites, the 116-B-4 Dummy Decontamination French Drain, the 116-B-5 Crib, and the 116-C-1 Liquid Waste Disposal Trench.

Objectives of this action have been developed jointly with EPA and Ecology over the past month using the Streamlined Approach for Environmental Restoration (SAFER) process are attached. An Engineering Evaluation/Cost Analysis and other required documentation will be prepared for this action.

Should you require more information on this request, please contact Ms. Nancy Werdel, of my staff, on 376-5500.

Sincerely,

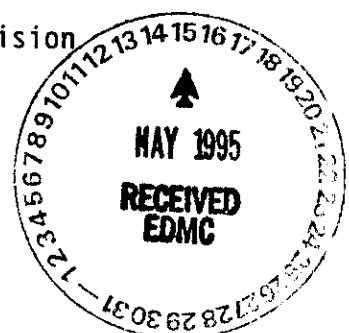
Julie Erickson, Director  
River Sites Restoration Division

RSD:NAW

Attachment

cc: w/attach:  
S. Balone, HQ

G. Eidam, ERC  
J. April, ERC



**100-BC-1 Demonstration Project Objectives**

Objectives for the 100-BC-1 Excavation Demonstration Project were developed through consensus of the extended project team (EPA, Ecology, DOE and ERC). The objectives of the Demonstration Project are to:

1. Implement the preferred alternative as presented in the draft proposed plans on a limited basis (i.e., remove and dispose, without treatment at 3 or 4 sites). The following tasks must be completed:
  - Develop remediation standards. This includes use of the balancing criteria as described in the proposed plan, and the development of stopping rules.
  - Achieve remediation standards. This includes implementation of the preferred alternative in a safe and timely manner.
2. While implementing the preferred alternative, collect information to reduce uncertainties prior to full-scale remediation. These uncertainties include:
  - Specific tasks and mitigation options for cultural and natural resources.
  - Criteria (e.g., cost and effectiveness) for when treatment to achieve volume reduction is applicable.
  - Protocols for meeting LDR requirements if LDR waste is found.
  - Applicability of balancing criteria and stopping rule.
  - Ability (e.g., effectiveness, timeliness etc.) to use the analytic system to identify the clean/dirty boundary, and to guide excavation.
  - Ability to use the analytic system to identify when remediation standards have been met and are confirmed.
  - Groundwater protection requirements (e.g., monitoring, additional excavation) once remediation standards for surface exposure have been met.
  - Cost estimates for remedial action.
  - Opportunities for out-sourcing.
  - Ability to identify processes that will lead to cost savings and efficiencies.
- 3) Other uncertainties to be determined through the remedial design task or public comment may be addressed through this project.